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WO 2004/070039 A3

(54) Title: RICE PROMOTERS

(57) Abstract: The present invention provides several promoters isolated from *Oryza sativa*, which promoters are capable of driving and/or regulating the expression of an operably linked nucleic acid in a plant. The expression patterns of the promoters according to the present invention have been studied in *Oryza sativa* and some of the promoters displayed specific activity in particular cells, tissues or organs of the plant, while others displayed constitutive expression throughout substantially the whole plant. Some promoters showed weak expression, while others were strongly active.

INTERNATIONAL SEARCH REPORT

Interné Application No
PCT/EP2004/050081

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/82

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 03/000898 A (SYNGENTA PARTICIPATIONS AG ; GOFF STEPHEN ARTHUR (US); CHEN WENQIONG () 3 January 2003 (2003-01-03) claim 27; sequence 6028 -& DATABASE EMBL 'Online! 20 November 2003 (2003-11-20), XP002288920 retrieved from EBI Database accession no. ADA72703 abstract</p> <p>-----</p> <p style="text-align: center;">-/-</p>	1-18

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

19 July 2004

Date of mailing of the international search report

13.12.04

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

Internat	Application No
PCT/EP2004/050081	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	XU Y ET AL: "CHARACTERIZATION OF A RICE GENE FAMILY ENCODING ROOT-SPECIFIC PROTEINS" PLANT MOLECULAR BIOLOGY, NIJHOFF PUBLISHERS, DORDRECHT, NL, vol. 27, no. 2, January 1995 (1995-01), pages 237-248, XP001085483 ISSN: 0167-4412 the whole document	1-18
A	WO 00/70067 A (MCELROY DAVID ; WU RAY (US); CORNELL RES FOUNDATION INC (US); DEKALB G) 23 November 2000 (2000-11-23) page 5, line 4; claim 35	
A	VIBOK I ET AL: "ENDOSPERM SPECIFIC EXPRESSION OF A GLIADIN-ACTIN HYBRID PROMOTER INTRANSGENIC RICE (ORYZA SATIVA L.)" CEREAL RESEARCH COMMUNICATIONS, SZEDEL, HU, vol. 27, no. 3, 1999, pages 241-249, XP001004886 ISSN: 0133-3720	
A	JANG IN-CHEOL ET AL: "High-level and ubiquitous expression of the rice cytochrome c gene OsCc1 and its promoter activity in transgenic plants provides a useful promoter for transgenesis of monocots" PLANT PHYSIOLOGY (ROCKVILLE), vol. 129, no. 4, August 2002 (2002-08), pages 1473-1481, XP002288876 ISSN: 0032-0889	
P, X	US 2004/016025 A1 (PROVART NICHOLAS ET AL) 22 January 2004 (2004-01-22) column 75; table 1; sequence 1739 -& DATABASE EMBL 'Online' 6 May 2004 (2004-05-06), XP002288929 retrieved from EBI Database accession no. ADJ40739 abstract	1-18

INTERNATIONAL SEARCH REPORT

Int

onal application No.
PCT/EP2004/050081

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-18 partially

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: 1-18 partially

An isolated promoter from rice according to SEQ ID NO:1 and related subject-matter.

Invention 2-22: 1-18 partially

idem for the individual SEQ ID NO:2-22

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal Application No	PCT/EP2004/050081
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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
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US 2004016025	A1 22-01-2004	WO WO EP EP EP WO WO WO WO WO US US	03000897 A2 03000904 A2 1402038 A2 1409696 A2 1402042 A2 03000905 A2 03000906 A2 03008540 A2 03007699 A2 03027249 A2 2003135888 A1 2004010815 A1	03-01-2003 03-01-2003 31-03-2004 21-04-2004 31-03-2004 03-01-2003 03-01-2003 30-01-2003 30-01-2003 03-04-2003 17-07-2003 15-01-2004